PATENT Atty. Dkt. No.SKY-010

## IN THE CLAIMS

Please cancel claims 1-12 and 15

- 1. (Cancelled)
- 2. (Cancelled)
- 3. (Cancelled)
- 4. (Cancelled)
- 5. (Cancelled)
- 6. (Cancelled)
- 7. (Cancelled)
- 8. (Cancelled)
- 9. (Cancelled)
- 10. (Cancelled)
- 11. (Cancelled)
- 12. (Cancelled)
- 13. (Previously presented) An antenna for communicating with a mesh network comprising:

a multi-layer circuit board having a first side and a second side, with a ground plane formed within the multi-layer circuit board;

an antenna array, affixed to the first side of the multi-layer circuit board, having M x N array of antenna elements, where M and N are integers greater than 1, said antenna array adapted to selectively synthesize one or more radiation patterns for communicating with neighboring nodes of said mesh network;

a driver circuit, affixed to the second side of the multi-layer circuit board, having a power divider that divides an input microwave signal into M signal paths, a plurality of phase shift circuits are coupled to M-1 paths and the output of each phase shift circuit is coupled to an antenna element, one of the M signal paths is coupled directly to an antenna element.

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PATENT Atty. Dkt. No.SKY-010

- 14. (original) The antenna of claim 13 wherein M is 5 and N is 8.
- 15. (Cancelled)
- 16. (original) The antenna of claim 13 wherein the phase sift circuits comprise switched hybrid couplers that, in response to a control signal, phase shift the signals on the M-1 paths by a discrete phase amount.
- 17. (original) The antenna of claim 16 wherein the discrete phase shift is at least one of -90 degrees, 0 degrees and +90 degrees.
- 18. (original) The antenna of claim 17 wherein the discrete phase shifts cause a main beam of a radiation pattern formed by the array to be directed 0 degrees, +45 degrees and -45 degrees.
- 19. (original) The antenna of claim 13 further comprising a modern circuit and a transceiver circuit.